In the Claims:

1. (Currently Amended) An electro-optical detection system comprising:

(a) an electro-optical payload; and

(b) an optical window assembly, for passing, to said electro-optical payload, electromagnetic radiation in at least one wavelength band selected from the group consisting of visible wavelength bands and infrared wavelength bands, while blocking electromagnetic radiation of radio and radar frequencies, said optical window assembly including:

(i) an outer window ,

(ii) an inner window, and

(iii) a housing, wherein said outer window and said inner window are mounted, said housing holding said outer window and said inner window apart, thereby forming an intervening space between said outer window and said inner window;

wherein said outer window includes an outer surface facing away from said inner window and an inner surface facing towards said inner window, wherein said inner window includes an outer surface facing towards said outer window and an inner surface facing away from said outer window, and wherein only said inner surface of said inner window is coated with an optical coating that is substantially transparent in at least one of said wavelength bands and that is substantially opaque to said electromagnetic radiation of radio and radar frequencies.

2-3. (Canceled)

4. (Original) The electro-optical detection system of claim 1, wherein said intervening space is occupied by a vacuum.

5. (Original) The electro-optical detection system of claim 1, wherein said intervening space is occupied by a thermally insulating substance.

6. (Original) The electro-optical detection system of claim 1, wherein said intervening space is occupied by a coolant, the electro-optical detection system further a comprising:

(c) a mechanism for circulating said coolant through said intervening space.

7. (Original) The electro-optical detection system of claim 1, wherein said electro-optical payload includes:

(i) an array of photosensitive elements, and

(ii) a focusing component for focusing said electromagnetic radiation in said at least one wavelength band onto said array.

8. (Currently Amended) A mobile platform comprising:

(a) an electro-optical detection system including:

(i) an optical window assembly, for admitting to the mobile platform electromagnetic radiation in at least one wavelength band selected from the group consisting of visible wavelength bands and infrared wavelength bands, while blocking

electromagnetic radiation of radio and radar frequencies, said optical window assembly including:

(A) an outer window,

(B) an inner window, and

(C) a housing, wherein said outer window and said inner window are mounted, said housing holding said outer window and said inner window apart, thereby forming an intervening space between said outer window and said inner window;

wherein said outer window includes an outer-surface facing away from said inner window and an inner surface facing towards said inner window, wherein said inner window includes an outer surface facing towards said outer window and an inner surface facing away from said outer window, and wherein only said inner surface of said inner window is coated with an optical coating that is substantially transparent in at least one of said wavelength bands and that is substantially opaque to said electromagnetic radiation of radio and radar frequencies.

9. (Original) The mobile platform of claim 8, wherein said electro-optical detection system further includes:

(ii) an electro-optical payload for receiving said electromagnetic radiation in said at least one wavelength band.

10. (Original) The mobile platform of claim 9, wherein said electro-optical payload includes:

(A) an array of photosensitive elements, and

(B) a focusing component for focusing said electromagnetic radiation in said at least one wavelength band onto said array.

11-12. (Canceled)

13. (Original) The mobile platform of claim 8, further comprising:

(b) a fuselage; and wherein said outer window includes an outer surface that is substantially flush with said fuselage.

14. (Original) The mobile platform of claim 8, further comprising:

(b) a mechanism for propelling the platform at a supersonic speed.

15. (Currently Amended) A method of detecting, from within a platform moving at a supersonic speed, electromagnetic radiation in at least one wavelength band selected from the group consisting of visible wavelength bands and infrared wavelength bands, comprising the steps of:

(a) providing the platform with an inner window that is transparent in the at least one wavelength band; and

(b) thermally insulating said inner window, from an atmosphere external to the platform, in a manner that allows the electromagnetic radiation to reach said inner window, by steps including incorporating said inner window in an optical window assembly that also includes:

(i) an outer window between said external atmosphere and said inner window, and

(ii) a housing, wherein said outer window and said inner window are mounted, said housing holding said outer window and said inner window apart, thereby forming an intervening space between said outer window and said inner window

wherein said outer window includes an outer surface facing towards said external atmosphere and an inner surface facing towards said inner window, wherein said inner window includes an outer surface facing towards said outer window and an inner surface facing away from said outer window, and wherein only said inner surface of said inner window is coated with an optical coating that is substantially transparent in the at least one wavelength band and that is substantially opaque to said electromagnetic radiation of radio and radar frequencies.

16-20. (Canceled)

21. (Currently Amended) The method of claim **[[18]]**15, wherein aid insulating is effected by steps further including providing a vacuum in said intervening space.

22. (Currently Amended) The method of claim **[[18]]**15, wherein said insulating is effected by steps further including providing a thermally insulating substance in said intervening space.

23. (Currently Amended) The method of claim **[[18]]**15, wherein said insulating is effected by steps further including circulating a coolant through said intervening space.